

OIPE

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/09/910,185**

DATE: 08/02/2001  
TIME: 10:56:08

Input Set : A:\RTS-0258 Sequence Listing.txt  
Output Set: N:\CRF3\08022001\I910185.raw

6 <110> APPLICANT: C. Frank Bennett  
7 Susan M. Freier  
9 <120> TITLE OF INVENTION: ANTISENSE MODULATION OF GLIOMA-ASSOCIATED ONCOGENE-3

## EXPRESSION

Does Not Comply  
Corrected Diskette Needed

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74 cag	ggg	ctc	agc	aaa	gtc	agt	gag	gaa	cct	tca	aca	tcg	agt	gac	gag	297
75 Gln	Gly	Leu	Ser	Lys	Val	Ser	Glu	Glu	Pro	Ser	Thr	Ser	Ser	Asp	Glu	
76					70				75					80		
78 agg	gcc	tca	ttg	atc	aag	aaa	gag	atc	cat	ggg	tcc	ctg	cca	cac	gtg	345
79 Arg	Ala	Ser	Leu	Ile	Lys	Lys	Glu	Ile	His	Gly	Ser	Leu	Pro	His	Val	
80					85				90					95		
82 gcg	gag	ccc	tct	gtg	ccg	tac	cgc	ggg	acg	gtg	ttt	gcc	atg	gac	ccc	393
83 Ala	Glu	Pro	Ser	Val	Pro	Tyr	Arg	Gly	Thr	Val	Phe	Ala	Met	Asp	Pro	
84					100				105					110		
86 agg	aat	gtt	tac	atg	gag	ccc	cac	tac	cac	cct	cct	cat	ttt	ttc	cct	441
87 Arg	Asn	Gly	Tyr	Met	Glu	Pro	His	Tyr	His	Pro	Pro	His	Leu	Phe	Pro	
88					115				120					125		
90 gcc	ttc	cat	cct	cct	gta	cca	att	gat	gcc	aga	cat	cat	gag	ggc	cgt	489
91 Ala	Phe	His	Pro	Pro	Val	Pro	Ile	Asp	Ala	Arg	His	His	Glu	Gly	Arg	
92 130					135				140					145		
94 tac	cat	tac	gat	cca	tct	ccg	att	cct	cca	ttg	cat	atg	act	tcc	gcc	537
95 Tyr	His	Tyr	Asp	Pro	Ser	Pro	Ile	Pro	Pro	Leu	His	Met	Thr	Ser	Ala	
96					150				155					160		
98 tta	tct	agt	agc	cct	acg	tat	ccg	gac	ctg	ccc	tcc	att	agg	atc	tcc	585
99 Leu	Ser	Ser	Pro	Thr	Tyr	Pro	Asp	Leu	Pro	Phe	Ile	Arg	Ile	Ser		
100					165				170					175		
102 cca	cac	ccg	aac	ccc	gct	gct	tcc	gag	tct	ccc	tcc	agc	cct	cca		633
103 Pro	His	Arg	Asn	Pro	Ala	Ala	Ser	Glu	Ser	Pro	Phe	Ser	Pro	Pro		
104					180				185					190		
106 cat	ccc	tac	att	aat	ccc	tac	atg	gac	tat	atc	cgc	tcc	ttg	cac	agc	681
107 His	Pro	Tyr	Ile	Asn	Pro	Tyr	Met	Asp	Tyr	Ile	Arg	Ser	Leu	His	Ser	
108					195				200					205		
110 agc	cca	tcg	ctc	tcc	atg	atc	tca	gca	acc	cgt	ggg	ctg	agc	cct	aca	729
111 Ser	Pro	Ser	Leu	Ser	Met	Ile	Ser	Ala	Thr	Arg	Gly	Leu	Ser	Pro	Thr	
112 210					215				220					225		
114 gat	gct	ccc	cat	gca	gga	gtc	agc	cca	gca	gaa	tac	tat	cat	cag	atg	777
115 Asp	Ala	Pro	His	Ala	Gly	Val	Ser	Pro	Ala	Glu	Tyr	Tyr	His	Gln	Met	
116					230				235					240		
118 gcc	ctg	cta	act	ggc	cag	cgc	agc	ccc	tat	gca	gac	att	att	ccc	tca	825
119 Ala	Leu	Leu	Thr	Gly	Gln	Arg	Ser	Pro	Tyr	Ala	Asp	Ile	Ile	Pro	Ser	
120					245				250					255		
122 gct	gcc	acc	gcc	ggc	acg	ggg	gcc	atc	cac	atg	gaa	tat	ctt	cat	gct	873
123 Ala	Ala	Thr	Ala	Gly	Thr	Gly	Ala	Ile	His	Met	Glu	Tyr	Leu	His	Ala	
124					260				265					270		
126 atg	gat	agc	acc	aga	ttc	tcc	agc	ccc	agg	ctg	tca	gcc	agg	ccg	agc	921
127 Met	Asp	Ser	Thr	Arg	Phe	Ser	Ser	Pro	Arg	Leu	Ser	Ala	Arg	Pro	Ser	
128					275				280					285		
130 cga	aaa	cgt	aca	ctg	tcc	ata	tca	cca	ctc	tcc	gat	cat	agc	ttt	gac	969
131 Arg	Lys	Arg	Thr	Leu	Ser	Ile	Ser	Pro	Leu	Ser	Asp	His	Ser	Phe	Asp	
132 290					295				300					305		
134 ctt	cag	acc	atg	ata	agg	acg	tct	ccc	aac	tcc	ttg	gtc	acg	att	ctc	1017
135 Leu	Gln	Thr	Met	Ile	Arg	Thr	Ser	Pro	Asn	Ser	Leu	Val	Thr	Ile	Leu	
136					310				315					320		
138 aat	aat	tcc	cgt	agc	agc	tct	tca	gca	agt	ggc	tcc	tat	ggt	cac	tta	1065

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139 Asn Asn Ser Arg Ser Ser Ser Ala Ser Gly Ser Tyr Gly His Leu		
140               325               330               335		
142 tct gca agt gca atc agc cct gcc ttg agc ttc acc tac tct tcc gcg		1113
143 Ser Ala Ser Ala Ile Ser Pro Ala Leu Ser Phe Thr Tyr Ser Ser Ala		
144               340               345               350		
146 ccc gtc tct ctc cac atg cat cag cag atc cta agc cga caa cag agc		1161
147 Pro Val Ser Leu His Met His Gln Gln Ile Leu Ser Arg Gln Gln Ser		
148               355               360               365		
150 tta ggt tca gcc ttt gga cac agc cct cca ctc atc cac cct gcc cca		1209
151 Leu Gly Ser Ala Phe Gly His Ser Pro Pro Leu Ile His Pro Ala Pro		
152               370               375               380               385		
154 act ttt cca aca cag agg cct att cca ggg atc cct acg gtt ctg aac		1257
155 Thr Phe Pro Thr Gln Arg Pro Ile Pro Gly Ile Pro Thr Val Leu Asn		
156               390               395               400		
158 ccc gtc cag gtc agc tcc ggc cct tct gag tcc tca cag aac aag ccc		1305
159 Pro Val Gln Val Ser Ser Gly Pro Ser Glu Ser Ser Gln Asn Lys Pro		
160               405               410               415		
162 acg agt gag tct gca gtg agc agc act ggt gac ccg atg cac aac aag		1353
163 Thr Ser Glu Ser Ala Val Ser Ser Thr Gly Asp Pro Met His Asn Lys		
164               420               425               430		
166 agg tcc aag atc aaa ccc gat gaa gac ctc ccc agc cca ggg gct cgg		1401
167 Arg Ser Lys Ile Lys Pro Asp Glu Asp Leu Pro Ser Pro Gly Ala Arg		
168               435               440               445		
170 ggg cag cag gaa cag ccc gaa gga aca acc ctt gtc aag gag gaa ggg		1449
171 Gly Gln Gln Glu Gln Pro Glu Gly Thr Thr Leu Val Lys Glu Glu Gly		
172               450               455               460               465		
174 gac aaa gat gaa agc aaa cag gag cct gaa gtc atc tat gag aca aac		1497
175 Asp Lys Asp Glu Ser Lys Gln Glu Pro Glu Val Ile Tyr Glu Thr Asn		
176               470               475               480		
178 tgc cac tgg gaa ggc tgc gcg agg gag ttc gac acc caa gag cag ctt		1545
179 Cys His Trp Glu Gly Cys Ala Arg Glu Phe Asp Thr Gln Glu Gln Leu		
180               485               490               495		
182 gtg cac cat ata aat aac gac cat att cat gga gag aag aag gag ttc		1593
183 Val His His Ile Asn Asn Asp His Ile His Gly Glu Lys Lys Glu Phe		
184               500               505               510		
186 gtg tgc agg tgg ctg gac tgc tca aga gag cag aaa ccc ttc aaa gcc		1641
187 Val Cys Arg Trp Leu Asp Cys Ser Arg Glu Gln Lys Pro Phe Lys Ala		
188               515               520               525		
190 cag tat atg ttg gta gtg cat atg aga aga cac acg ggc gag aag cct		1689
191 Gln Tyr Met Leu Val Val His Met Arg Arg His Thr Gly Glu Lys Pro		
192               530               535               540               545		
194 cac aaa tgc act ttt gaa ggt tgc aca aag gcc tac tcg aga cta gaa		1737
195 His Lys Cys Thr Phe Glu Gly Cys Thr Lys Ala Tyr Ser Arg Leu Glu		
196               550               555               560		
198 aac ttg aaa aca cac ttg aga tct cac act gga gag aaa cca tac gtc		1785
199 Asn Leu Lys Thr His Leu Arg Ser His Thr Gly Glu Lys Pro Tyr Val		
200               565               570               575		
202 tgt gag cac gaa ggt tgc aac aag gct ttc tca aat gcc tct gat cgc		1833
203 Cys Glu His Glu Gly Cys Asn Lys Ala Phe Ser Asn Ala Ser Asp Arg		

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204	580	585	590	
206	gcc aaa cac caa aac aga acg cat tcc aat gag aaa cca tat gtg tgc			1881
207	Ala Lys His Gln Asn Arg Thr His Ser Asn Glu Lys Pro Tyr Val Cys			
208	595	600	605	1929
210	aaa atc cca ggc tgc act aag cgt tac aca gac cca agc tcc ctc cgg			
211	Lys Ile Pro Gly Cys Thr Lys Arg Tyr Thr Asp Pro Ser Ser Leu Arg			
212	610	615	620	625
214	aaa cat gtg aag aca gtg cat ggc cca qag gct cat gtc acc aag aag			1977
215	Lys His Val Lys Thr Val His Gly Pro Glu Ala His Val Thr Lys Lys			
216	630	635	640	
218	cag cga ggg gac atc cat cct cgg cca ccc ccg aga gat tcc ggc			2025
219	Gln Arg Gly Asp Ile His Pro Arg Pro Pro Pro Arg Ser Gly			
220	645	650	655	
222	agc cat tca cag tcc agg tcg cct ggc cga ccg act cag gga gcc ctt			2073
223	Ser His Ser Gln Ser Arg Ser Pro Gly Arg Pro Thr Gln Gly Ala Leu			
224	660	665	670	
226	ggt gag cag cag gac ctc agc aac act acc tca aag cgg gaa gaa tgc			2121
227	Gly Glu Gln Gln Asp Leu Ser Asn Thr Thr Ser Lys Arg Glu Glu Cys			
228	675	680	685	
230	ctc cag gtg aaa acc gtc aag gca gag aag cca atg aca tct cag cca			
231	Leu Gln Val Lys Thr Val Lys Ala Glu Lys Pro Met Thr Ser Gln Pro			
232	690	695	700	705
234	agc cct ggt ggt cag tct tca tgc agc agc caa cag tcc ccc atc agc			
235	Ser Pro Gly Gly Gln Ser Ser Cys Ser Gln Gln Ser Pro Ile Ser			
236	710	715	720	
238	aac tat tcc aac agt ggg ctc gag ctt cct ctg acc gat gga ggt agt			2265
239	Asn Tyr Ser Asn Ser Gly Leu Glu Leu Pro Leu Thr Asp Gly Gly Ser			
240	725	730	735	
242	ata gga gac ctc agt gcc atc gat gaa acc cca atc atg gac tca acc			2313
243	Ile Gly Asp Leu Ser Ala Ile Asp Glu Thr Pro Ile Met Asp Ser Thr			
244	740	745	750	
246	att tcc act gca acc aca gcc ctt gct ttg caa gcc agg aga aac ccg			2361
247	Ile Ser Thr Ala Thr Ala Leu Ala Leu Gln Ala Arg Arg Asn Pro			
248	755	760	765	
250	gca ggg acc aaa tgg atg gag cac gta aaa cta gaa agg cta aaa caa			
251	Ala Gly Thr Lys Trp Met Glu His Val Lys Leu Glu Arg Leu Lys Gln			
252	770	775	780	785
254	gtg aat gga atg ttt ccg cga ctg aac ccc att cta ccc cct aaa gcc			2457
255	Val Asn Gly Met Phe Pro Arg Leu Asn Pro Ile Leu Pro Pro Lys Ala			
256	790	795	800	
258	cct gcg gtc tct ctc ata gga aat ggc aca cag tcc aac aac acc			2505
259	Pro Ala Val Ser Pro Leu Ile Gly Asn Gly Thr Gln Ser Asn Asn Thr			
260	805	810	815	
262	tgc agc ttg ggt ggg ccc atg acg ctt ctc ccg ggc aga agc gac ctc			2553
263	Cys Ser Leu Gly Gly Pro Met Thr Leu Leu Pro Gly Arg Ser Asp Leu			
264	820	825	830	
266	tct ggg gtg gac gtc act atg ctg aac atg ctc aac aga agg gac agc			
267	Ser Gly Val Asp Val Thr Met Leu Asn Met Leu Asn Arg Arg Asp Ser			
268	835	840	845	

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270	agc	gcc	agc	acc	atc	agc	tcg	gcc	tac	ctg	agc	agc	cgc	cgc	tcc	tca		2649
271	Ser	Ala	Ser	Thr	Ile	Ser	Ser	Ala	Tyr	Leu	Ser	Ser	Arg	Arg	Ser	Ser		
272	850				855					860						865		
274	ggg	atc	tcg	ccc	tgc	ttc	tcc	agc	cgc	cgc	tcc	agc	gag	gcg	tca	cag		2697
275	Gly	Ile	Ser	Pro	Cys	Phe	Ser	Ser	Arg	Arg	Ser	Ser	Glu	Ala	Ser	Gln		
276						870				875						880		
278	gcc	gag	ggc	cgg	ccg	cag	aac	gtg	agc	gtg	gcc	gac	tcc	tac	gac	ccc		2745
279	Ala	Glu	Gly	Arg	Pro	Gln	Asn	Val	Ser	Val	Ala	Asp	Ser	Tyr	Asp	Pro		
280						885				890						895		
282	atc	tcc	acc	gac	gcc	tcg	cgc	cgc	tcc	agc	gaa	gcc	agc	cag	agc	gac		2793
283	Ile	Ser	Thr	Asp	Ala	Ser	Arg	Arg	Ser	Ser	Glu	Ala	Ser	Gln	Ser	Asp		
284						900				905						910		
286	ggc	ctg	ccc	agc	ctg	ctc	agc	ctc	ccc	gcc	cag	cag	tac	cgc	ctc			2841
287	Gly	Leu	Pro	Ser	Leu	Leu	Ser	Leu	Thr	Pro	Ala	Gln	Gln	Tyr	Arg	Leu		
288						915				920						925		
290	aag	gcc	aag	tac	gcf	gct	gcc	aca	gga	ggg	ccg	ccg	ccg	acg	.ccc	ctg		2889
291	Lys	Ala	Lys	Tyr	Ala	Ala	Ala	Thr	Gly	Gly	Pro	Pro	Pro	Pro	Thr	Pro	Leu	
292						930				935						940		945
294	ccc	aac	atg	gag	agg	atg	agc	ctg	aag	acg	cgc	ctg	gcf	ctc	ggg			2937
295	Pro	Asn	Met	Glu	Arg	Met	Ser	Leu	Lys	Thr	Arg	Leu	Ala	Leu	Gly			
296						950				955						960		
298	gat	gcc	ctc	gag	cct	ggc	gtg	gcc	ctg	cct	cca	gtt	cat	gcc	ccg	agg		2985
299	Asp	Ala	Leu	Glu	Pro	Gly	Val	Ala	Leu	Pro	Pro	Val	His	Ala	Pro	Arg		
300						965				970						975		
302	agg	tgc	agc	gac	ggg	gga	gcc	cac	ggc	tac	ggg	ccg	cgc	cac	ctg	cag		3033
303	Arg	Cys	Ser	Asp	Gly	Gly	Ala	His	Gly	Tyr	Gly	Arg	Arg	His	Gly			
304						980				985						990		
306	ccg	cac	gat	gcf	ctg	ggc	cac	ggc	gtg	agg	agg	gcc	agc	gac	ccg	gtg		3081
307	Pro	His	Asp	Ala	Leu	Gly	His	Gly	Val	Arg	Arg	Ala	Ser	Asp	Pro	Val		
308						995				1000						1005		
310	cgf	aca	ggc	tcc	gag	ggc	ctg	gcc	ctg	cct	cgt	gtg	ccg	ccg	tcc	agc		3129
311	Arg	Thr	Gly	Ser	Glu	Gly	Leu	Ala	Leu	Pro	Arg	Val	Pro	Arg	Phe	Ser		
312						1010				1015						1020		1025
314	agc	ctc	agc	agc	tgc	aac	ccc	ccg	atg	gcc	acg	tcc	gcf	gag	aag			3177
315	Ser	Leu	Ser	Ser	Cys	Asn	Pro	Pro	Ala	Met	Ala	Thr	Ser	Ala	Glu	Lys		
316						1030				1035						1040		
318	cgc	agt	ctc	gtg	ctt	cag	aat	tac	acg	ccg	ccc	gag	ggc	ggc	cag	tcc		3225
319	Arg	Ser	Leu	Val	Leu	Gln	Asn	Tyr	Thr	Arg	Pro	Glu	Gly	Gly	Gln	Ser		
320						1045				1050						1055		
322	cga	aac	tcc	cac	tcg	ccc	tgt	cct	ccc	agc	atc	acc	gag	aac	gtc			3273
323	Arg	Asn	Phe	His	Ser	Ser	Pro	Cys	Pro	Pro	Ser	Ile	Thr	Glu	Asn	Val		
324						1060				1065						1070		
326	acc	ctg	gag	tcc	ctg	acc	atg	gac	gct	gat	gcc	aac	ctg	aac	gat	gag		3321
327	Thr	Leu	Glu	Ser	Leu	Thr	Met	Asp	Ala	Asp	Ala	Asn	Leu	Asn	Asp	Glu		
328						1075				1080						1085		
330	gat	ttc	ctg	ccg	gac	gac	gtg	gtg	cag	tat	tta	aat	tcc	cag	aac	caa		3369
331	Asp	Phe	Leu	Pro	Asp	Asp	Val	Val	Gln	Tyr	Leu	Asn	Ser	Gln	Gln			
332						1090				1095						1100		1105
334	gca	ggg	tac	gag	cag	cac	tcc	ccc	agc	gcc	ctc	ccg	gac	gac	agc	aaa		3417

**VERIFICATION SUMMARY**  
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L:13 M:270 C: Current Application Number differs, Replaced Current Application No  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date